

## Claims

1. Method for the characteristic map-based obtention of values for at least one control parameter of an installation,  
5 particularly an internal combustion engine, whereby
  - support points for the control parameter, each of which provide a value for the control parameter, are defined across a range of operational parameters within a characteristic map in accordance with operational parameters of the installation,
  - 10 - the range of operational parameters covered in said characteristic map is divided into a first and a second subdomain each of which comprises several of the support points, and
  - the value for the control parameter is obtained by
  - 15 extrapolation when a boundary of the first subdomain is reached before the value for the control parameter is obtained by accessing support points of the second subdomain.
2. Method according to Claim 1, whereby, when a certain  
20 distance from the last support point of the first subdomain is reached, the value is obtained by extrapolation from support points of the second subdomain.
3. Method according to one of the above claims, whereby, a  
25 discrete operating mode of the installation is allocated to each subdomain.
4. Method according to Claim 3 for an internal combustion engine, which has fuel injected into combustion chambers,  
30 whereby the discrete operating modes differ in the number of injections per work cycle.
5. Method according to Claim 4, whereby the characteristic map contains values of injection parameters in accordance with

speed and load of the internal combustion engine.

6. Method according to Claim 5, whereby the injection parameters include injection quantity and/or injection angle.

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7. Method according to one of the Claims 3 to 6, whereby a change of operating mode is made when a certain operating state is reached.